



FIG. 1A

5
↓
P
↓
1 GGTCTACTAAATATTATTCCTACTATACAAATTAAATACACAGATAATATCIGTCICATTTGGTTATTCTGCAGAAATGAAAAAAGGAGGATAAAGA GTG
99 AGA GGC AAA AAA GTA TGG ATC AGT TTG CTG TTT GCT TTA GCG TTA ATC TTT ACG ATG GCG TTC GGC AGC ACA TCC
100 PRE -90
Arg Gly Lys Lys Val Trp Ile Ser Leu Leu Phe Ala Leu Ala Leu Ile Phe Thr Met Ala Phe Gly Ser Thr Ser
174 TCT GCC CAG GCG GCA GGG AAA TCA AAC GGG GAA AAG AAA TAT ATT GTC GGG TTT AAA CAG ACA ATG AGC ATG Met
-80 -70 PRO -60
Ser Ala Gln Ala Ala Gly Lys Ser Asn Gly Glu Lys Lys Tyr Ile Val Gly Phe Lys Gln Thr Met Ser Thr Met
249 AGC GCC GCT AAG AAG AAA GAT GTC ATT TCT GAA AAA GGC GGG AAA GTG CAA AAG CAA TTC AAA TAT GTA GAC GAA Ala
-50 -40
Ser Ala Ala Lys Lys Lys Asp Val Ile Ser Glu Lys Gly Gly Lys Val Gln Lys Phe Lys Tyr Val Asp Ala
324 GCT TCA GCT ACA TTA AAC GAA AAA GCT GTA AAA GAA TTTG AAA AAA GAC CCG AGC GTC GCT TAC GTT GAA GAA GAT
-30 -20 -10
Ala Ser Ala Thr Leu Asn Glu Lys Ala Val Lys Glu Lys Lys Lys Val Ala Tyr Val Val Glu Asp
MAT
-1 1
His Val Ala His Ala Tyr Ala Gln Ser Val Pro Tyr Gly Val Ser Gln Ile Lys Ala Pro Ala Leu His Ser Gln
399 CAC GTA GCA CAT GCG TAC GCG CAG TCC GTG CCT TAC GGC GTA TCA CAA ATT AAA GCC CCT GCT CTG CAC TCT CAA
20 30 40
Gly Tyr Thr Gly Ser Asn Val Val Lys Val Ala Val Ile Asp Ser Ser Gly Ile Asp Ser Ser His Pro Asp Leu Lys Val
474 GGC TAC ACT GGA TCA AAT GTT AAA GTA GCG GTT ATC GAC AGC GGT ATC GAT TCT TCT TCT CAT CAT CCT GAT TTA AAG GTA

FIG. 1B - 1

549	Ala	Gly	Gly	Ala	Ser	Met	Val	Pro	Ser	Glu	Thr	Asn	Pro	Asn	Phe	Gln	Asp	Asp	Asn	Ser	His	Gly	Thr	His	Val	Ala
	GCA	GGC	GGA	GCC	AGC	ATG	GTT	CCT	CCT	TCT	GAA	ACA	AAT	CCT	TTC	CAA	GAC	AAC	AAC	TCT	CAC	GGA	ACT	CAC	GTT	GCC
624	Gly	Thr	Val	Ala	Ala	Leu	Asn	Asn	Ser	Ile	Gly	Val	Leu	Gly	Gly	Val	Ala	Pro	Ser	Ala	Ser	Leu	Tyr	Ala	Val	Lys
	GGC	ACA	GTT	GCG	GCT	CTT	AAT	AAC	TCA	ATC	GGT	GTA	TTA	TTA	GGC	GTT	GCG	CCA	AGC	GCA	TCA	CTT	TAC	GCT	GTA	AAA
699	Val	Leu	CTC	Gly	Ala	Asp	Gly	Ser	Gly	Gln	Tyr	Ser	Trp	Ile	Ile	Asn	Gly	Ile	Glu	Trp	Ala	Ile	Ala	Asn	Asn	Met
	GTT	GTC	GGT	GCT	GAC	GGT	TCC	GAC	GGC	CAA	TAC	AGC	TGG	ATC	ATT	AAC	GGA	ATC	GAG	TGG	GCG	ATC	GCA	AAC	AAT	ATG
774	Asp	Val	Ile	Asn	Met	Ser	Leu	Ser	Gly	Gly	Pro	Ser	Gly	Ser	Ala	Ala	Leu	Lys	Ala	Ala	Val	Asp	Lys	Ala	Val	Ala
	GAC	GTT	ATT	AAC	ATG	AGC	CTC	AGC	CTC	GGC	GGA	CCT	TCT	TCT	GCT	GCT	TTA	AAA	GCG	GCA	GTT	GAT	AAA	GCC	GTT	GCA
849	Ser	Gly	Val	Val	Val	Val	Ala	Ala	Ala	Ala	Gly	Asn	Glu	Gly	Thr	Ser	Gly	Ser	Ser	Ser	Thr	Val	Gly	Tyr	Pro	Gly
	TCC	GGC	GTC	GTA	GTC	GTT	GCG	GCA	GCC	GCA	GGT	AAC	GAA	GGC	ACT	TCC	GGC	AGC	TCA	AGC	ACA	GTG	GGC	TAC	CCT	GGT
924	Lys	Tyr	Pro	Ser	Val	Ile	Ala	Val	Gly	Ala	Ala	Val	Asp	Ser	Ser	Ser	Gln	Arg	Ala	Ser	Phe	Ser	Ser	Val	Gly	Pro
	AAA	TAC	CCT	TCT	GTC	ATT	GCA	GTA	GGC	GCT	GCT	GTT	GAC	AGC	AGC	AA	CAA	AGA	GCA	TCT	TTC	TCA	AGC	GTA	GGA	CCT
999	Glu	Leu	Asp	Val	Met	Ala	Pro	Gly	Val	Ser	Ile	Gln	Ser	Ser	Thr	Leu	Pro	Gly	Asn	Lys	Tyr	Gly	Ala	Tyr	Asn	Gly
	GAG	CTT	GAT	GTC	ATG	GCA	CCT	GGC	GTA	TCT	ATC	CAA	AGC	ACG	CTT	CCT	GGG	AAC	AAA	TAC	GGG	GCG	TAC	AAC	GGT	
1074	Thr	Ser	Met	Ala	Ser	Pro	His	Val	Val	Ala	Gly	Ala	Ala	Leu	Ile	Leu	Ser	Lys	His	Pro	Asn	Trp	Thr	Asn	Thr	
	ACG	TCA	ATG	GCA	TCT	CCG	CAC	GTT	GCC	GGA	GCG	GCT	GCT	TTG	ATT	CTT	TCT	AAG	CAC	CCG	AAC	TGG	ACA	AAC	ACT	

FIG.-1B-2

FIG. 1B - 3

FIG. 1B

FIG. 1B-1

FIG. 1B-2

FIG. 1B - 3